

CLEAN VERSION OF AMENDED AND NEWLY ADDED CLAIMS

91 1. (once amended) The medication delivery system of claim 25 further comprising a pump flowpath providing fluid communication between said fluid storage chamber and said pump outlet, wherein said pump flowpath includes a flow restriction, a drip chamber, and a sight window, said flow restriction exiting into said drip chamber and said sight window oriented to enable visual contact with said drip chamber, and wherein said flow restriction is sized to convert a continuous stream of fluid entering said flow restriction from said fluid storage chamber to a drip stream exiting said flow restriction into said drip chamber.

2. (once amended) The medication delivery system of claim 1 further comprising an outlet tube positioned beneath said flow restriction in said drip chamber separated from said flow restriction by a drip gap, wherein said outlet tube is configured to convert said drip stream exiting said flow restriction to a reverted continuous stream.

3. (once amended) The medication delivery system of claim 25, wherein said elastic member is a spring.

2/13/1 4. (once amended) The medication delivery system of claim 25 wherein said bolus injector is positioned in series with said infusion pump, said injector inlet is connected to said pump outlet, and said bolus injector further includes an outlet valve positioned at said injector outlet and transitionable between an open position and a closed position, wherein said outlet valve is biased to said closed position and transitioned to said open position in response to ambient pressure of fluid medication contacting said outlet valve.

5. (once amended) The system of claim 25, wherein said bladder has an elastic memory to restore said bladder to an initial configuration after said bladder is deformed by compression.

2/13/2 6. (once amended) The medication delivery system of claim 25 wherein said infusion pump further includes a pump flowpath providing fluid communication between

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said fluid storage chamber and said pump outlet, wherein said pump flowpath has a flow restriction and a drip chamber, and wherein said flow restriction is sized to convert a continuous stream of fluid entering said flow restriction from said fluid storage chamber to a drip stream exiting said flow restriction into said drip chamber, said bolus injector is positioned in series with said infusion pump, and said injector inlet is connected to said pump outlet.

9. (once amended) The system of claim 25, wherein said bolus chamber has a fluid capacity substantially less than said fluid storage chamber.

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10. (once amended) The system of claim 25 further comprising an outlet valve positioned at said injector outlet and transitionable between an open position and a closed position, wherein said outlet valve is biased to said closed position and transitioned to said open position in response to ambient pressure of fluid medication contacting said outlet valve.

11. (once amended) The medication delivery system of claim 25 wherein said infusion pump including said fluid storage chamber, said pump outlet, said displacement piston, and said elastic member is a second infusion pump including, a second fluid storage chamber, a second pump outlet, a second displacement piston, and a second elastic member, said system further comprising a first infusion pump including, a first fluid storage chamber, a first pump outlet, a first displacement piston displaceably positionable to expand or contract said first fluid storage chamber, and a first elastic member transitionable between a more stressed position and a less stressed position to displace said first displacement piston, wherein said bolus injector is positioned in series with said second infusion pump, and said injector inlet is connected to said second pump outlet, and said system further comprising a junction connecting said first pump outlet with said injector outlet and a common flow tube exiting said junction and in fluid communication with said first pump outlet and said injector outlet.

12. (once amended) The system of claim 11, wherein said first infusion pump further includes a first pump flowpath providing fluid communication between said first fluid

storage chamber and said first pump outlet, said first pump flowpath having a flow restriction and a drip chamber, and wherein said flow restriction is sized to convert a continuous stream of fluid entering said flow restriction from said fluid storage chamber to a drip stream exiting said flow restriction into said drip chamber.

Q2 13. (once amended) The system of claim 12, wherein said first pump flowpath includes a sight window oriented to enable visual contact with said drip chamber.

14. (once amended) The system of claim 12 further comprising an outlet tube positioned beneath said flow restriction in said drip chamber separated from said flow restriction by a drip gap, wherein said outlet tube is configured to revert said drip stream exiting said flow restriction to a reverted continuous stream.

Q3 17. (once amended) The medication delivery system of claim 25 wherein said pump outlet is a first pump outlet, said infusion pump further includes a second pump outlet for discharging fluid from said infusion pump in response to displacement of said displacement piston, wherein said injector inlet is connected to said second pump outlet, and said system further comprises a junction connecting said first pump outlet with said injector outlet and a common flow tube exiting said junction and in fluid communication with said first pump outlet and said injector outlet.

18. (once amended) The system of claim 17 wherein said infusion pump further includes a pump flowpath providing fluid communication between said fluid storage chamber and said first pump outlet, said pump flowpath having a flow restriction and a drip chamber, further wherein said flow restriction is sized to convert a continuous stream of fluid entering said flow restriction from said fluid storage chamber to a drip stream exiting said flow restriction into said drip chamber.

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JAB 25. A medication delivery system comprising:
a) an infusion pump including,
a fluid storage chamber for storing fluid medication,
a displacement piston displaceably positionable to expand or contract

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said fluid storage chamber,

an elastic member transitionable between a more stressed position and a less stressed position to displace said displacement piston, and

a pump outlet for discharging fluid from said infusion pump in response to displacement of said displacement piston; and

b) a bolus injector positioned downstream of said fluid storage chamber in fluid communication with said fluid storage chamber, said bolus injector including,

a flexible bladder,

a bolus chamber enclosed by said flexible bladder,

an injector inlet into said bolus chamber, and

an injector outlet from said bolus chamber.

26. A medication delivery system comprising:

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a) an infusion pump including,

a fluid storage chamber for storing fluid medication,

a displacement piston displaceably positionable to expand or contract said fluid storage chamber,

an elastic member transitionable between a more stressed position and a less stressed position to displace said displacement piston, and

a pump outlet for discharging fluid from said infusion pump in response to displacement of said displacement piston; and

b) a bolus injector positioned in series with said infusion pump including,

a flexible bladder,

a bolus chamber enclosed by said flexible bladder,

an injector inlet into said bolus chamber and connected to said pump outlet, and

an injector outlet from said bolus chamber.

27. A medication delivery system comprising:

a) an infusion pump including,

a fluid storage chamber,

a displacement piston displaceably positionable to expand or contract

said fluid storage chamber,

an elastic member transitionable between a more stressed position and a less stressed position to displace said displacement piston,

a first pump outlet for discharging fluid from said infusion pump in response to displacement of said displacement piston, and

a second pump outlet for discharging fluid from said infusion pump in response to displacement of said displacement piston; and

b) a bolus injector in fluid communication with said fluid storage chamber including,

a flexible bladder,

a bolus chamber enclosed by said flexible bladder,

an injector inlet into said bolus chamber and connected to said second pump outlet, and

an injector outlet from said bolus chamber.

28. A medication delivery system comprising:

a) a first infusion pump including,

a first fluid storage chamber,

a first displacement piston displaceably positionable to expand or contract said first fluid storage chamber, and

a first elastic member transitionable between a more stressed position and a less stressed position to displace said first displacement piston, and

a first pump outlet for discharging fluid from said first infusion pump in response to displacement of said first displacement piston;

b) a second infusion pump including,

a second fluid storage chamber,

a second displacement piston displaceably positionable to expand or contract said fluid storage chamber,

a second elastic member transitionable between a more stressed position and a less stressed position to displace said second displacement piston, and

a second pump outlet for discharging fluid from said second infusion

pump in response to displacement of said second displacement piston; and
c) a bolus injector positioned in series with said second infusion pump
including,

a flexible bladder,

a bolus chamber enclosed by said flexible bladder,

an injector inlet into said bolus chamber and connected to said second
pump outlet, and
an injector outlet from said bolus chamber.